

ATTORNEYS AT LAW  
900 GATEWAY TOWER WEST  
15 WEST SOUTH TEMPLE  
SALT LAKE CITY, UTAH 84101

Year	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100
1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100	

What is claimed is:

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1 a parser configured to obtain a Document Type Definition (DTD) specifying  
2 rules for decoding the IMS transaction definition and further  
3 configured to parse the XML document using the DTD to decode the  
4 IMS transaction definition; and  
5 an IMS interface module configured to provide the decoded IMS transaction  
6 definition to the IMS.  
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8 9. The system of claim 8, wherein the IMS transaction definition  
9 comprises an APPLCTN macro.  
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11 10. The system of claim 8, wherein the IMS transaction definition  
12 comprises a TRANSACT macro.  
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14 11. The system of claim 8, wherein the DTD comprises an XML Metadata  
15 Interchange (XMI) DTD.  
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17 12. The system of claim 8, wherein the document reception module  
18 comprises an IMS gateway.  
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20 13. The system of claim 8, further comprising:  
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1 a modeling tool configured to model an IMS transaction definition in a  
2 Universal Modeling Language (UML) to produce a UML object  
3 model; and

4 an XML Metadata Interchange (XMI) utility configured to process the UML  
5 object model to create the DTD.

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8 14. The system of claim 8, wherein the parser is further configured to  
9 obtain a DTD specifying rules for encoding an IMS transaction definition as an XML  
10 document and to parse the IMS transaction definition using the DTD.

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12 15. An article of manufacture comprising a program storage medium  
13 readable by a processor and embodying one or more instructions executable by the  
14 processor to perform a method for communicating with an Information  
15 Management System (IMS) using eXtensible Markup Language (XML) documents,  
16 the method comprising:

17 receiving a document comprising an IMS transaction definition encoded in  
18 XML;

19 obtaining a Document Type Definition (DTD) specifying rules for decoding  
20 the IMS transaction definition;  
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1 parsing the XML document using the DTD to decode the IMS transaction  
2 definition; and  
3 providing the decoded IMS transaction definition to the IMS.  
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6 16. The article of manufacture of claim 15, wherein the IMS transaction  
7 definition comprises an APPLCTN macro.  
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9 17. The article of manufacture of claim 15, wherein the IMS transaction  
10 definition comprises a TRANSACT macro.  
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12 18. The article of manufacture of claim 15, wherein the DTD comprises an  
13 XML Metadata Interchange (XMI) DTD.  
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16 19. The article of manufacture of claim 15, wherein the receiving step  
17 comprises receiving the document at an IMS gateway.  
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19 20. The article of manufacture of claim 15, wherein the obtaining step  
20 comprises:  
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1 modeling the IMS transaction definition in a Universal Modeling Language  
2 (UML) to produce a UML object model;  
3 processing the UML object model using an XML Metadata Interchange  
4 (XMI)utility to create the DTD.  
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7 21. The article of manufacture of claim 15, the method further comprising:  
8 obtaining an IMS transaction definition;  
9 obtaining a Document Type Definition (DTD) specifying rules for encoding  
10 the IMS transaction definition; and  
11 parsing the IMS transaction definition with the DTD to encode the IMS  
12 transaction definition in an XML document.  
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